

What is claimed is:

1. A drive-by-wire assembly for a motor vehicle comprising, in combination;
a foot engaging member configured to be engaged by a foot of a user, the foot engaging member configured to remain substantially stationary when engaged by a foot of a user;
a force measuring sensor secured to the foot engaging member and configured to provide an output signal based on a force applied by a foot of a user.
2. The drive-by-wire assembly of claim 1, wherein the force measuring sensor is a strain gauge.
3. The drive-by-wire assembly of claim 1, wherein the force measuring sensor is a load cell.
4. The drive-by-wire assembly of claim 1, wherein the force measuring sensor is a Hall-effect sensor.
5. The drive-by-wire assembly of claim 4, wherein the Hall-effect sensor is excited by a spring and magnet assembly.
6. The drive-by-wire assembly of claim 1, wherein the foot engaging member is a pedal.
7. The drive-by-wire assembly of claim 6, wherein the pedal comprises an arm having a first end and a second end, and a footpad secured to the first end, the second end being secured to a mounting member.

8. The drive-by-wire assembly of claim 7, wherein the mounting member is configured to be secured to a front of dash of a vehicle.
9. The drive-by-wire assembly of claim 1, wherein the foot engaging member is an accelerator pedal.
10. The drive-by-wire assembly of claim 1, wherein the foot engaging member is a brake pedal.
11. The drive-by-wire assembly of claim 1, wherein the foot engaging member is a clutch pedal.
12. The drive-by-wire assembly of claim 1, wherein the foot engaging member is a suspended pedal.
13. The drive-by-wire assembly of claim 1, wherein the foot engaging member is configured to be secured to a front of dash of a vehicle.
14. The drive-by-wire assembly of claim 1, further comprising a cover for the foot engaging member.
15. The drive-by-wire assembly of claim 1, further comprising an electronic control unit configured to receive the output signal from the force measuring sensor.
16. The drive-by-wire assembly of claim 1, further comprising a cable to connect the force measuring sensor to the electronic control unit.

17. A drive-by-wire assembly for a motor vehicle comprising, in combination;
a pedal configured to be engaged by a foot of a user, the pedal configured to be substantially stationary when engaged by a foot of a user;
a force measuring sensor secured to the pedal and configured to provide an output signal based on a force applied by a foot of a user;
an electronic control unit connected to the force measuring sensor and configured to receive the output signal and output a control signal.
18. The drive-by-wire assembly of claim 17, wherein the force measuring sensor is a strain gauge.
19. The drive-by-wire assembly of claim 17, wherein the force measuring sensor is a load cell.
20. The drive-by-wire assembly of claim 17, wherein the force measuring sensor is a Hall-effect sensor.
21. The drive-by-wire assembly of claim 20, wherein the Hall-effect sensor is excited by a spring and magnet assembly.
22. The drive-by-wire assembly of claim 17, wherein the pedal is an accelerator pedal.
23. The drive-by-wire assembly of claim 17, wherein the pedal is a brake pedal.

24. The drive-by-wire assembly of claim 17, wherein the pedal is a clutch pedal.